

| Job Risk Analysis   |  |                              |               |                                      |                            |                    |              |                   |                                 |               |               |                    |            |                               |                           |                  |  |  |
|---|--|------------------------------|---------------|--------------------------------------|----------------------------|--------------------|--------------|-------------------|---------------------------------|---------------|---------------|--------------------|------------|-------------------------------|---------------------------|------------------|--|--|
| Name(s) of Risk Team Members:<br>A. Etkin, D. Gassner, T. Russo, J. Saetta              |  |                              |               | Point Value →<br>Parameter ↓         |                            | 1                  |              | 2                 |                                 | 3             |               | 4                  |            | 5                             |                           |                  |  |  |
| Job Title: Electronic work-routine <600 V<br><br>Job Number or Job Identifier: JRA 4-06 |  |                              |               | Frequency<br>(B)                     |                            | ≤once/year         |              | ≤once/month       |                                 | ≤once/week    |               | ≤once/shift        |            | >once/shift                   |                           |                  |  |  |
| Job Description:<br>Testing of proto-type jump target drive interface to control system |  |                              |               | Severity<br>(C)                      |                            | First Aid Only     |              | Medical Treatment |                                 | Lost Time     |               | Partial Disability |            | Death or Permanent Disability |                           |                  |  |  |
| Training and Procedures List (optional):  |  |                              |               |                                      |                            | Extremely Unlikely |              | Unlikely          |                                 | Possible      |               | Probable           |            | Multiple                      |                           |                  |  |  |
| Approved by: <i>E. Lessard</i> Date: 6-1-06      Rev: 0                                 |  |                              |               |                                      |                            |                    |              |                   |                                 |               |               |                    |            |                               |                           |                  |  |  |
| Stressors (if applicable, please list all):   |  |                              |               | Reason for Revision (if applicable): |                            |                    |              |                   |                                 | Comments:     |               |                    |            |                               |                           |                  |  |  |
|   |  |                              |               |                                      | Before Additional Controls |                    |              |                   |                                 |               |               |                    |            |                               | After Additional Controls |                  |  |  |
| Job Step / Task   | Hazard   | Control(s)                   | Stressors Y/N | # of People A                        | Frequency B                | Severity C         | Likelihood D | Risk*<br>AxBxCxD  | Control(s) Added to Reduce Risk | Stressors Y/N | # of People A | Frequency B        | Severity C | Likelihood D                  | Risk*<br>AxBxCxD          | % Risk Reduction |  |  |
| Review proposed setup for hazards and mitigations                                       | None   | None                         | N             | 2                                    | 1                          | 1                  | 1            | 2                 |                                 |               |               |                    |            |                               |                           |                  |  |  |
| Gather and arrange required commercial equipment at test area                           | injuries resulting from bending, lifting, carrying | Procedures, training         | N             | 2                                    | 1                          | 1                  | 2            | 4                 |                                 |               |               |                    |            |                               |                           |                  |  |  |
| Attach spare linear motor-LVDT to bench with thermistor [use of hand tools]             | Cuts, pinches                                      | Procedures, gloves, training | N             | 1                                    | 1                          | 2                  | 2            | 4                 |                                 |               |               |                    |            |                               |                           |                  |  |  |
| Connect components [use of hand tools]  | Cuts, pinches, burns                               | Procedures, gloves, training | N             | 1                                    | 1                          | 1                  | 3            | 3                 |                                 |               |               |                    |            |                               |                           |                  |  |  |

|  |            |   |            |   |   |          |   |    |             |  |  |               |  |  |  |  |
|--|------------|---|------------|---|---|----------|---|----|-------------|--|--|---------------|--|--|--|--|
| Connect components   | Shock      | Voltages limited to hazard class A range, All equipment is listed or reviewed by CEE, Loto, qualified technicians, postings, guarding, work planning,<br>C-AD management has implemented requirements and mechanisms to meet PPE requirements identified in NFPA 70E as of December 22, 2004. Enhanced PPE requirements established April 2006. Implementation of a plan to meet OSHA’s NRTL requirements began June 1, 2005. | N          | 1 | 1 | 1        | 1 | 1  |             |  |  |               |  |  |  |  |
| Inspect Set-up   | None       | None  | N          | 3 | 1 | 1        | 1 | 3  |             |  |  |               |  |  |  |  |
| Test operation of interface and motor under computer control | Shock      | Voltages limited to hazard class A range, All equipment is listed or reviewed by CEE, qualified technicians, postings, guarding, work planning,<br>C-AD management has implemented requirements and mechanisms to meet PPE requirements identified in NFPA 70E as of December 22, 2004. Enhanced PPE requirements established April 2006. Implementation of a plan to meet OSHA’s NRTL requirements began June 1, 2005.       | N          | 3 | 5 | 1        | 1 | 15 |             |  |  |               |  |  |  |  |
| Further Description of Controls Added to Reduce Risk:        |            |   |            |   |   |          |   |    |             |  |  |               |  |  |  |  |
| *Risk:   | 0 to 20    |   | 21 to 40   |   |   | 41-60    |   |    | 61 to 80    |  |  | 81 or greater |  |  |  |  |
|  | Negligible |   | Acceptable |   |   | Moderate |   |    | Substantial |  |  | Intolerable   |  |  |  |  |